PRACTICE PROJECTILE WITH SMOKE SIGNATURE

ABSTRACT OF THE INVENTION

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A new projectile design for the M224 Mortar gun system that is ballistically similar to the M720 high explosive mortar cartridge. The present design compensates for the realistic hands-on practice cartridges, and allows for the release of flame or smoke and bang upon impact to simulate a successful deployment of the tactical cartridge. The projectile design not only balances the weight deficiency due to the removal of the explosive fills, but also improves conventional method of releasing a smoke signature as in other full and short range practice cartridges. The projectile includes three main components: a center vent tube, a plurality of vent holes, and a plurality of vent plugs. The center vent tube compensates for the physical properties of the tactical mortar cartridge and provides a passage for an efficient release of smoke upon a fuze function. The vent holes are positioned at the rear end of the projectile body to sufficiently release pressure, flame and smoke upon a fuze function. The vent plugs seal the vent holes to protect the interior of the projectile during storage, handling, and launching.

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